

ARTIFACT SHEET

Indicate quantity of item(s) received by the USPTO but not scanned.

- ☐ CD(s) containing computer program listing
Doc Code: Computer
- ☐ Stapled Set(s) of Extra Color Drawings
Doc Code: Artifact
- ☐ CD(s) containing pages of specification and/or sequence listing ☐
Doc Code: Artifact
- ☐ CD(s) with content unspecified
Doc Code: Artifact
- ☐ Microfilm(s)
Doc Code: Artifact
- ☐ Video tape(s)
Doc Code: Artifact
- ☐ Other mass storage media, description: _____
Doc Code: Artifact
- ☐ Model(s)
Doc Code: Artifact
- ☒ Other, description: United States Patent # 5879514
Doc Code: Artifact
- ☐ Other, description: _____
Doc Code: Artifact
- ☐ Other, description: _____
Doc Code: Artifact
- ☐ Other, description: _____
Doc Code: Artifact

The
United
States
of
America



P15469
RECEIVED

MAR 11 1999

GREENBLUM & BERNSTEIN, P.L.C.

The Commissioner of
Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Acting Commissioner of Patents and Trademarks

Attest

NOTICE

If the application for this patent was filed on or after December 12, 1980, maintenance fees are due three years and six months, seven years and six months, and eleven years and six months after the date of this grant, or within a grace period of six months thereafter upon payment of a surcharge as provided by law. The amount, number and timing of the maintenance fees required may be changed by law or regulation. Unless payment of the applicable maintenance fee is received in the Patent and Trademark Office on or before the date the fee is due or within a grace period of six months thereafter, the patent will expire as of the end of such grace period.

United States Patent [19]

[11] Patent Number: 5,879,514

Meschenmoser

[45] Date of Patent: Mar. 9, 1999

[54] SCRAPER DEVICE FOR A PAPER MACHINE

5,393,383 2/1995 Karvinen 162/274
5,611,892 3/1997 Karvinen et al. 162/205

[75] Inventor: Andreas Meschenmoser, Horgenzell,
Germany

FOREIGN PATENT DOCUMENTS

0117670 9/1984 European Pat. Off. .

[73] Assignee: Voith Sulzer Papiermaschinen GmbH,
Heidenheim, Germany

Primary Examiner—Peter Chin
Assistant Examiner—Steven B. Leavitt
Attorney, Agent, or Firm—Greenblum & Bernstein, P.L.C.

[21] Appl. No.: 821,342

[22] Filed: Mar. 20, 1997

[57] ABSTRACT

[30] Foreign Application Priority Data

Mar. 21, 1996 [DE] Germany 196 11 166.8

[51] Int. Cl.⁶ D21F 7/04

[52] U.S. Cl. 162/272; 162/274; 162/199;
15/256.5; 15/256.51

[58] Field of Search 162/272, 274,
162/275, 281, 282, 199; 15/156.5, 156.51

A scraper device for a paper machine comprises first and second scraper means that can be pivoted into engagement with a fabric web and with a guide roll, respectively. By combining at least two scraper means in a common assembly, a particularly compact and cost-saving structure is achieved. Due to the fact that the first scraper means is arranged upstream of the guide roll, viewed in the direction of travel of the fabric web, and that it can be pivoted into engagement with the fabric web from below in a manner such that a downwardly open space is left, it is guaranteed that the paper residues will be carried off completely even in case of trouble, for example in case of web failure.

[56] References Cited

U.S. PATENT DOCUMENTS

5,021,124 6/1991 Turtinen et al. 162/99
5,240,563 8/1993 Karvinen et al. 162/274

35 Claims, 4 Drawing Sheets

